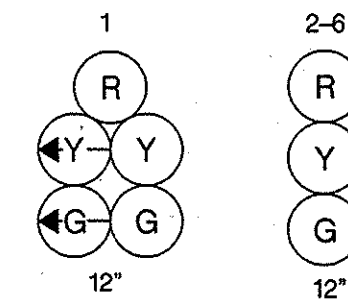


MD 99 IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

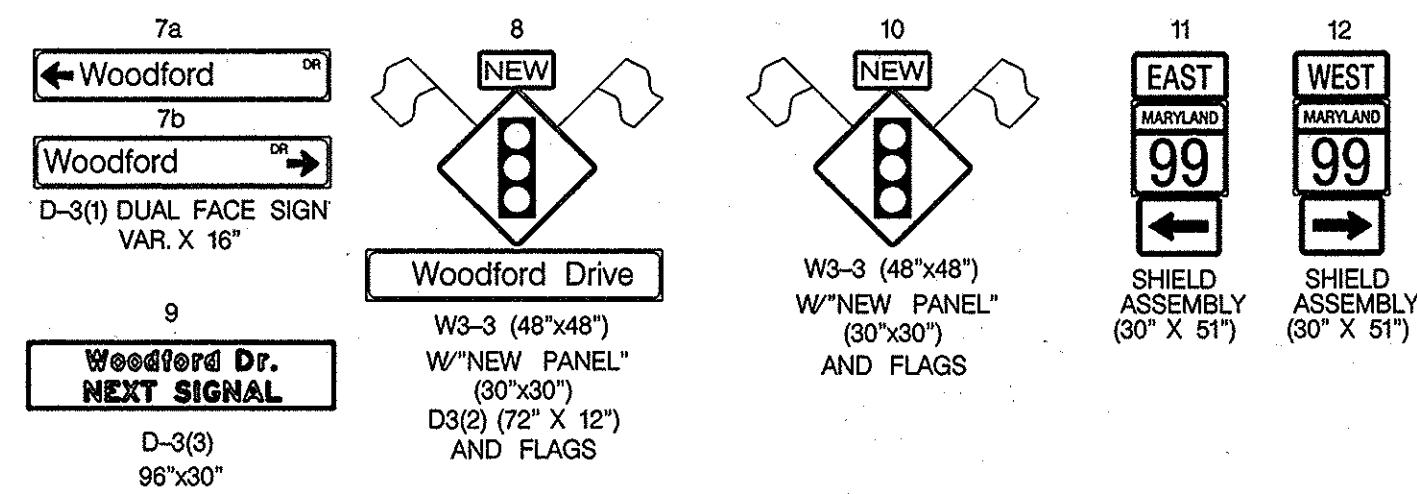
PROPOSED L.E.D. SIGNALS



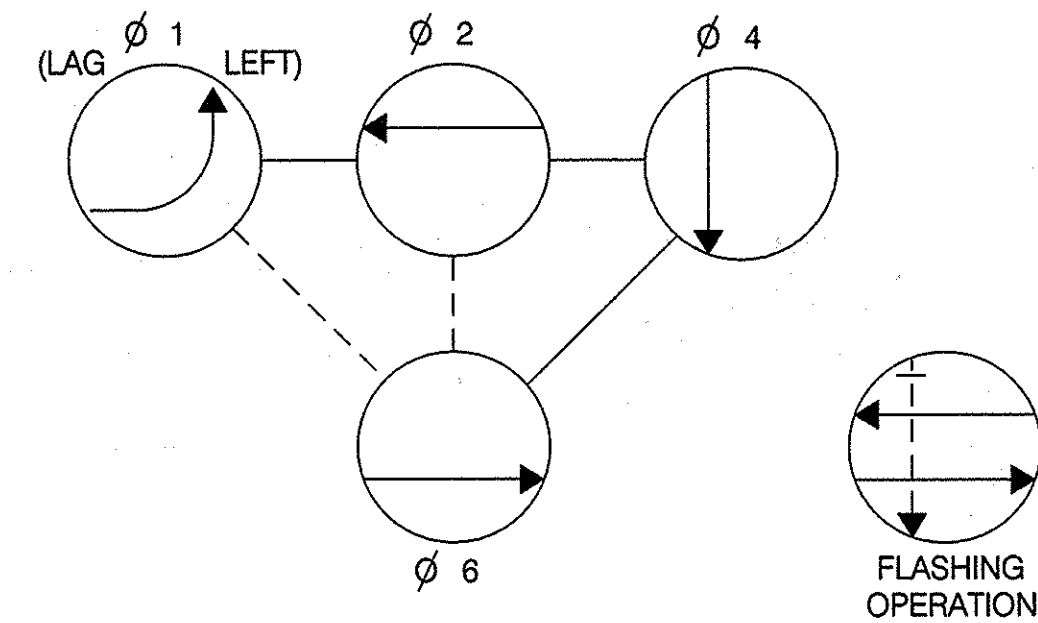
PROPOSED VIDEO DETECTION CAMERA



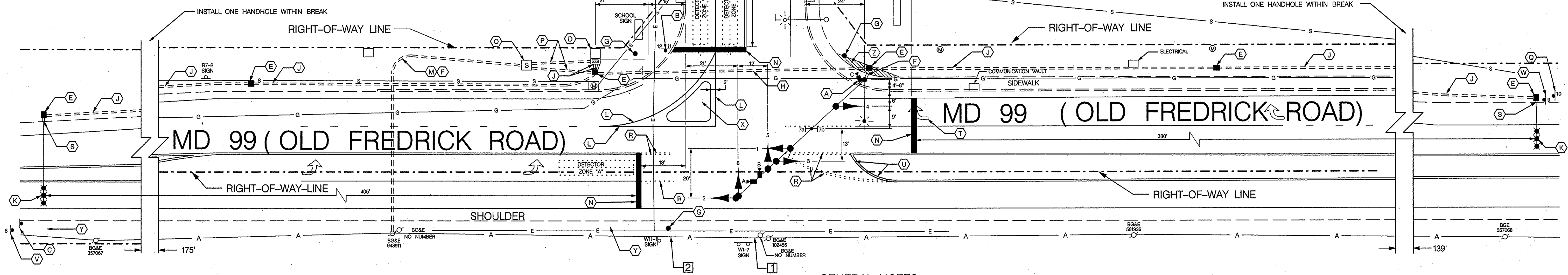
PROPOSED SIGNS



NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
3.) PHASE 1 SHALL LAG PHASES 2 AND 6



CONSTRUCTION DETAILS

- INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS AND 15 FT. STREET LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- REMOVE EXISTING R1-1 SIGN AND INSTALL NEW GROUND MOUNTED SIGNS ON TWO 4 IN. X 6 IN. WOOD SUPPORTS
- REMOVE EXISTING D-3(2) SIGN AND SUPPORTS
- INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL OTHER NECESSARY EQUIPMENT (NOTE: INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- INSTALL ELECTRICAL HANDHOLE
- INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- REMOVE EXISTING CONCRETE FOUNDATION
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- INSTALL MICRO-LOOP PROBE
- INSTALL 10 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- PROPOSED UNDERGROUND ELECTRIC SERVICE
- INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- REMOVE EXISTING PAVEMENT MARKINGS
- INSTALL W3-3 SIGN ON WESTBOUND MD 99 APPROXIMATELY 1200 FT. IN ADVANCE OF THE INTERSECTION ON TWO 4 IN. X 6 IN. WOOD POSTS
- REMOVE EXISTING PAVEMENT MARKINGS
- INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALIC CONDUIT - DETECTOR SLEEVE
- REMOVE EXISTING PAVEMENT MARKING ARROW
- INSTALL 5 IN. YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL W3-3 SIGN ON EASTBOUND MD 99 APPROXIMATELY 900 FT. IN ADVANCE OF THE INTERSECTION ON TWO 4 IN. X 6 IN. WOOD POSTS
- INSTALL D-3(3) SIGN ON WESTBOUND MD 99 APPROXIMATELY 450 FT. IN ADVANCE OF THE INTERSECTION ON TWO 4 IN. X 6 IN. WOOD POSTS (RELOCATE THE EXISTING "SCHOOL ZONE" SIGN APPROX. 100 FT. TO THE EAST)
- INSTALL SAND COLORED HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- BACKFILL BORE SITE (CUT AND CAP CONDUIT)
- INSTALL 4 IN. CONCRETE SIDEWALK TO MAINTAIN 5 FT. WIDTH

UTILITY HEIGHTS

- TELEPHONE = 21' - 3"
NEUTRAL = 30' - 9"
PRIMARY = > 35' - 0"
- TELEPHONE = 21' - 0"
NEUTRAL = 30' - 5"
PRIMARY = > 35' - 0"

GENERAL NOTES

- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- REMOVE EXISTING R1-1 "STOP" SIGN FOR WOODFORD DRIVE WHEN THE SIGNAL IS OPERATIONAL.
- REMOVE THE EXISTING ADVANCE STREET NAME SIGN ON E.B. MD 99 WEST OF WOODFORD DRIVE.

2 REVISION 8-28-07
CHANGE POLE LOCATION
FROM WEST TO EAST CORNER
TEDD APPROVAL *[Signature]*

1 REVISION 8-1-07
CHANGE FROM BOX TO
DIAGONAL SIGNAL LAYOUT
TEDD APPROVAL WH 8-8-07

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APPROVALS	
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
TRAFFIC SIGNAL PLAN MD 99 (OLD FREDRICK ROAD) AND WOODFORD DRIVE	
SCALE 1" = 20'	DATE 8-2-07 CONTRACT NO. AX 1425185
DESIGNED BY T. ZAYDEL	COUNTY HOWARD
DRAWN BY T. ZAYDEL	LOGMILE 13009900.82
CHECKED BY K. SCHMID	T.I.M.S. NO. 1 010
F.A.P. NO. NA	TOD NO.
DRAWING NO. TS-4559	SHEET NO. 1 OF 2